

i) benzaldehyde, THF / EtOH, r.t., 24h, ii) NaBH<sub>4</sub>, THF, r.t., 7h, 74% (2 steps total),  
 iii) 1-pyrenealdehyde, THF / MeOH, r.t., 20h, 93%, iv) NaBH<sub>4</sub>, MeOH, r.t., 3h, 92%  
 v) 2, K<sub>2</sub>CO<sub>3</sub>, MeCN, reflux, 20h, vi) THF / water, r.t., 3h, 35%

Figure 1

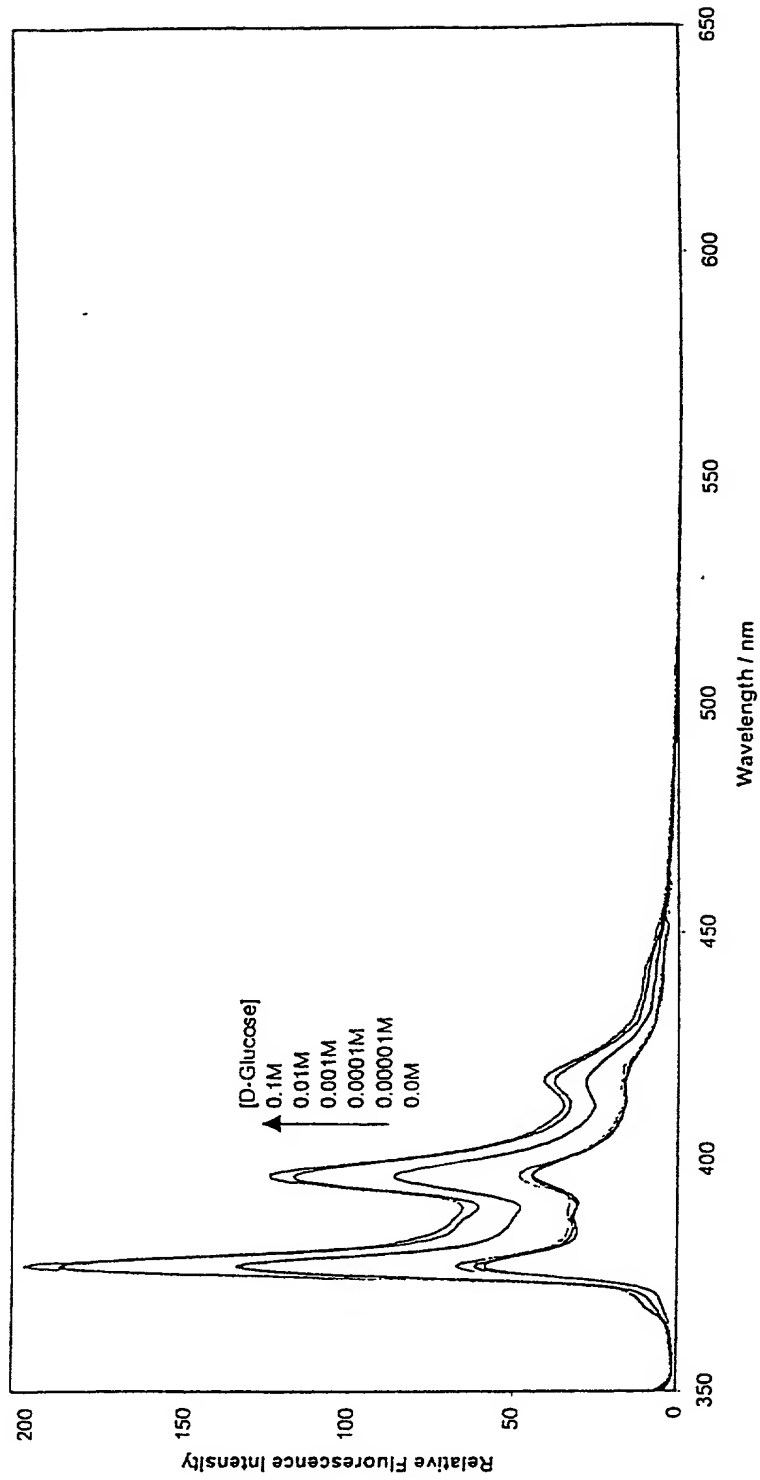


Figure 2

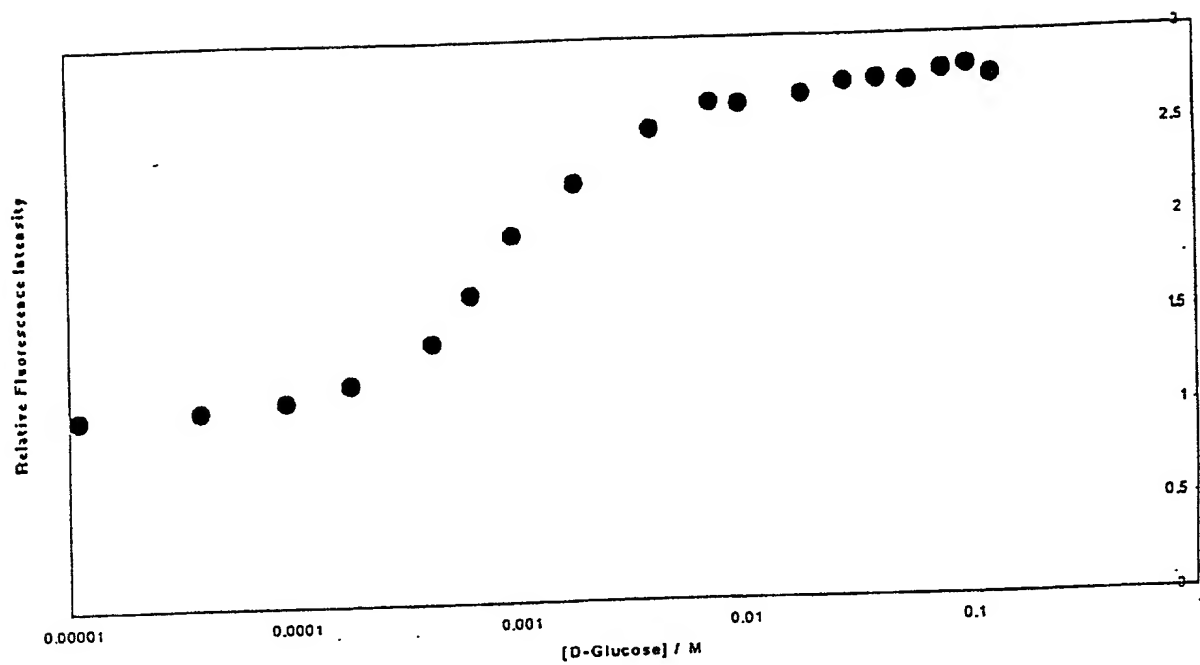


Figure 3